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(54) PRODUCTION OF UNSATURATED NITRILE

(57)Abstract:

PURPOSE: Ammonoxydation of an olefin in vapor phase is conducted in the presence of a specific catalyst at elevated temperatures to keep high conversion and produce the corresponding unsaturated nitrile in high selectivity.

CONSTITUTION: The vapor-phase ammonoxydation of an olefin such as propylene or isobutylene is conducted in the presence of a catalyst at elevated temperatures to form the corresponding unsaturated nitrile wherein, as a catalyst, is used a composition represented by the general formula (X is at least one selected from P, As and Sb; A is alkali metal; B is at least one element selected from Ni, Co and W; aWh are atomic numbers, if a is 10, b and c are 0.1W10, d is 0.01W1, e and g are 0W10, f is 0W1, h has a value determined by valencies of the above elements other than oxygen, usually 31.5W112).

Y. O. H. I. S. P. B. C. T. G. X. e. A. r. D. G. O. r.

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